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60019620.0003

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September 2, 2004

Date

Type of Paper transmitted:

Correction Documents

Applicant's Name:

Deuel, Thomas F., et al.

Patent No.:

6,448,381

Examiner:

Unknown

Patent Issued:

September 10, 2002

Art Unit:

Application Title:

DNA ENCODING HEPARIN-BINDING GROWTH FACTOR

Original will NOT be mailed

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CERTIFICATE OF CORRECTION

PATENT NO.

: 6,448,381 B1

DATED

: September 10, 2002 INVENTOR(S): Deuel, Thomas, F. et al. Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page,

Item [54], Title should be replaced with -- DNA ENCODING HEPARIN BINDING GROWTH FACTORS. --

Line 55, delete "." which appears after ";" and before "Zhan."

Column 5,

Line 9, nucleotide 314, should be changed from "d" to -G. --Line 62, "the extra space which appears after "ity" should be removed.

Column 10.

Line 6, add -- . -- between "7.0" and "About."

Table II, "HBGF8" should be replaced with -- 95% GLY-LYS-LYS-GLU-LYS-PRO-GLU-LYS-LYS-VAL-LYS-LYS-SER-ASP-CYS-GLY-GLU-TRP-GLN-TRP-SER-VAL-CYS-VAL-PRO. --

Line 57, add a space after "5299" and before "(1979)".

Column 12,

Line 50, the sequence of claim 2 should read:

	GTCAAAGGCA	GGATCAGGTT	CCCCGCCTCC	CAGTCCAAAA	ATCCCGCCAA	50
	GAGAGCCCCA	GAGCAGAGGA	AAATCCAAAG	TGGAGAGAGG	GGAAGAAAGA	100
	GACCAGTGAG	TCATCCGTCC	AGAAGGCGGG	GAGAGCAGCA	GCGGCCCAAG	150
	CAGGAGCTGC	AGCGAGCCGG	GTACCTGGAC	TCAGCGGTAG	CAACCTCGCC	200
	CCTTGCAACA	AAGGCAGACT	GAGCGCCAGA	GAGGACGTTT	CCAACTCAAA	250
	AATGCAGGCT	CAACAGTACC	AGCAGCAGCG	TCGAAAATTT	GCAGCTGCCT	300
	TCTTGGCATT	CATTTTCATA	CTGGCAGCTG	TGGATACTGC	TGAAGCAGGG	350
	AAGAAAGAGA	AACCAGAAAA	AAAAGTGAAG	AAGTCTGACT	GTGGAGAATG	400
	GCAGTGGAGT	GTGTGTGTGC	CCACCAGTGG	AGACTGTGGG	CTGGGCACAC	450
•	GGGAGGGCAC	TCGGACTGGA	GCTGAGTCCA	AGCAAACCAT	GAAGACCCAG	500

CERTIFICATE OF CORRECTION

PATENT NO.

: 6,448,381 B1

DATED

: September 10, 2002

INVENTOR(S) : Deuel, Thomas, F. et al.

Page 2 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 12 (cont'd),

AGATGTAAGA	TCCCCTGCAA	CTGGAAGAAG	CAATTTGGCG	CGGAGTGCAA	550
ATACCAGTTC	CAGGCCTGGG	GAGAATGTGA	CCTGAACACA	GCCCTGAAGA	600
CCAGAACTGG	AAGTCTGAAG	CGAGCCCTGC	ACAATGCCGA	ATGCCAGAAG	650
ACTGTCACCA	CTCCCAAGCC	CTGTGGCAAA	CTGACCAAGC	CCAAACCTCA	700
AGCAGAATCT	AAGAAGAAGA	AAAAGGAAGG	CAAGAAACAG	GAGAAGATGC	7 50
TGGATTAAAA	GATGTCACCT	GTGGAACATA	AAAAGGACAT	CAGCAAACAG	800
GATCAGTTAA	CTATTGCATT	TATATGTACC	GTAGGCTTTG	TATTCAAAAA	850
TTATCTATAG	CTAAGTACAC	AATAAGCAAA	AACAAAAAGA	AAAAAAAAA	900
********	AAAAAAAA	AAAAAAAAA	AAAAAAAA	AAAAAAAAA	950
AAAAAAAAA	Α				961

Signed and Sealed this

Fifteenth Day of June, 2004



· JON W. DUDAS

Acting Director of the United States Patent and Trademark Office



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سه براطه^{یل} ۱۸

Patent No.: 6,448,381

Patent Issued: September 10, 2002

MTM

Inventor(s): Thomas F. Deuel, et. al.

CC: (i HB

Title: DNA ENCODING HEPARIN-BINDING GROWTH FACTOR

Docket No.: 60019620-0003

Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction for the above-identified patent under the provisions of Rule 1.323.

The alleged errors to column 12 should not be made or adding of claims 3 or 4.

In view of the foregoing, your request in this matter is hereby denied. However, further consideration will be given upon receipt of a request for reconsideration directed to Decisions & Certificates of Correction Branch.

A certificate of correction will issue to correct the remaining errors noted in your request.

Eva James For Cecelia B. Newman Certificates of Correction Branch (703) 305-8047 or 8309

Michael T. Marrah Sonnenschein Nath & Rosenthal P.O. Box #061080 Wacjer Drive Station Sears Tower Chicago, Illinois 60606-1080

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: DEUEL, Thomas, F. et al. Exa

Examiner: EYLER, Yvonne, L.

Patent No.: 6,448,381

Group Art Unit: 1646

Issued: September 10, 2002

For: DNA ENCODING HEPARIN BINDING

GROWTH FACTORS

Attorney Docket: 60019620-0003

Commissioner for Patents Attn: Decisions & Certificate of Correction Branch P.O. Box 1450 Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Sir:

Transmitted herewith is a proposed Certificate of Correction for the above-captioned Letters Patent.

This application was filed on June 21, 1990, with 7 claims. Amendment A filed on August 19, 1991, withdrew claims 1-3 and amended claims 4-7. The Examiner's Amendment mailed September 28, 1995, canceled claims 1-3 and amended claims 4 and 6. Accordingly, Patentee respectfully requests that a Certificate of Correction be issued to reflect that U.S. Patent No. 6,448,381 consists of 4 claims (i.e., original claims 4-7).

Patentee submits that the errors set forth in the proposed Certificate of Correction were made by the Patent and Trademark Office and no fee is due.

Respectfully submitted,

Michael T. Marrah Reg. No. 40,718

Customer No. 26263

(314) 259-5303

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,448,381

DATED: September 10, 2002

INVENTOR(S): DEUEL, Thomas, F. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

The title should be replaced with "DNA ENCODING HEPARIN BINDING GROWTH FACTORS."

In Column 1, line 55, delete "." which appears after ";" and before "Zhan."

In Column 5, nucleotide 314 should be changed from "d" to "G."

In Column 5, line 62, the extra space which appears after "ity" should be removed.

In Column 10, line 6, add "." between "7.0" and "About."

In Table II, HBGF8 should be replaced with "95% GLY-LYS-LYS-GLU-LYS-PRO-GLU-LYS-LYS-VAL-LYS-LYS-SER-ASP-CYS-GLY-GLU-TRP-GLN-TRP-SER-VAL-CYS-VAL-PRO."

In Column 10, line 57, add a space after "5299" and before "(1979)."

In Column 12, line 23, replace "Thr" with "Ala"; replace "Pro" with "Gln"; and replace "Leu" with "Gln."

In Column 12, line 41, replace "Asp" with "Glu."

In Column 12, line 43, replace second "Ser" with "Pro."

In Column 12, line 48, add "purified and isolated" before "cDNA" and after "The" and replace "bovine" with "human."

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PATENT NO. 6,448,381

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,448,381

DATED: September 10, 2002

INVENTOR(S): DEUEL, Thomas, F. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

The sequence of Claim 2 should read:

GT	CAAAGGCA	GGATCAGGTT	CCCCGCCTCC	CAGTCCAAAA	ATCCCGCCAA	50
GA	GAGCCCCA	GAGCAGAGGA	A AAATCCAAAG	TGGAGAGAGG	GGAAGAAAGA	100
GA	CCAGTGAG	TCATCCGTCC	AGAAGGCGGG	GAGAGCAGCA	GCGGCCCAAG	150
CAC	GGAGCTGC	AGCGAGCCG	GTACCTGGAC	TCAGCGGTAG	CAACCTCGCC	200
CC	TTGCAACA	AAGGCAGACT	GAGCGCCAGA	GAGGACGTTT	CCAACTCAAA.	250
TAA	GCAGGCT	CAACAGTACC	AGCAGCAGCG	TCGAAAATTT	GCAGCTGCCT .	300
тст	TGGCATT	CATTTTCATA	CTGGCAGCTG	TGGATACTGC	TGAAGCAGGG	350
AAC	BAAAGAGA	AACCAGAAAA	AAAAGTGAAG	AAGTCTGACT	GTGGAGAATG	400
GC/	AGTGGAGT	GTGTGTGTGC	CCACCAGTGG	AGACTGTGGG	CTGGGCACAC	450
GG	GAGGGCAC	TCGGACTGGA	GCTGAGTCCA	AGCAAACCAT	GAAGACCCAG	500

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,448,381

DATED: September 10, 2002

INVENTOR(S): DEUEL, Thomas, F. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

AGATGTAAGA	TCCCCTGCAA	CTGGAAGAAG	CAATTTGGCG	CGGAGTGCAA	550
ATACCAGTTC	CAGGCCTGGG	GAGAATGTGA	CCTGAACACA	GCCCTGAAGA	600
CCAGAACTGG	AAGTCTGAAG	CGAGCCCTGC	ACAATGCCGA	ATGCCAGAAG	650
ACTGTCACCA	CTCCCAAGCC	CTGTGGCAAA	CTGACCAAGC	CCAAACÇTCA	700
AGCAGAATCT	AAGAAGAAGA	AAAAGGAAGG	CAAGAAACAG	GAGAAGATGC	750
TGGATTAAAA	GATGTCACCT	GTGGAACATA	AAAAGGACAT	CAGCAAACAG	800
GATCAGTTAA	CTATTGCATT	TATATGTACC	GTAGGCTTTG	TATTCAAAAA	85Q
TTATCTATAG	CTAAGTACAC	AATAAGCAAA	AACAAAAAGA	AAAAAAAA	900
AAAAAAAAA	AAAAAAAA	AAAAAAAAA	AAAAAAAAA	AAAAAAAA	950
AAAAAAAAA	A				961

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,448,381

DATED: September 10, 2002

INVENTOR(S): DEUEL, Thomas, F. et al.

From-Sonnenschein Nath & Rosenthal (2)

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Add Claim 3 as follows:

3. A purified and isolated DNA sequence consisting of a sequence encoding bovine heparing binding growth factor of 168 amino acids haveing the following amino acid sequence:

Met Gin Thr Pro Gin Tyr Leu Gin Gin Arg Arg Lys Phe Ala Ala 15

Ala Phe Leu Ala Phe lie Phe lie Leu Ala Ala Val Asp Thr Ala 30

Glu Ala Gly Lys Lys Glu Lys Pro Glu Lys Lys Val Lys Lys Ser 45

Asp Cys Gly Glu Trp Gin Trp Ser Val Cys Val Pro Thr Ser Gly 60

Asp Cys Gly Leu Gly Thr Arg Glu Gly Thr Arg Thr Gly Ala Glu 75

Cys Lys Gin Thr Met Lys Thr Gin Arg Cys Lys lie Pro Cys Asn 90

Trp Lys Lys Gln Phe Gly Ala Glu Cys Lys Tyr Gln Phe Gln Ala 105

Trp Gly Glu Cys Asp Leu Asn Thr Ala Leu Lys Thr Arg Thr Gly 120

Ser Leu Lys Arg Ala Leu His Asn Ala Asp Cys Gln Lys Thr Val 135

Thr lie Ser Lys Pro Cys Gly Lys Leu Thr Lys Ser Lys Pro Gln 150

Ala Glu Ser Lys Lys Lys Lys Lys Glu Gly Lys Lys Gln Glu Lys 165

Met Leu Asp

PATENT NO. 6,448,381

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO: 6,448,381

DATED: September 10, 2002

INVENTOR(S): DEUEL, Thomas, F. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

Add Claim 4 as follows:

4. The purfied and isolated cDNA of bovine heparin-binding growth factor having the following nucleotide sequence:

GAGTGGAGAG	AGTAGAAGAA	AGAGAGCAGG	GAGTCACCGG	GCGTGCGGG	50
GCGGAGAGCA	GCGGCCGCCG	GAGCACCAG	CGACTTGGGT	ACCTGGACTC	100
AGGGCAGAAA	AACCTCTCCC	GGATCAACAA	AGGCAGCCTG	AGCGCGCACC	150
GCTCTTTTGC	GACTCCAAAA	TGCAGACTCC	ACAGTACCTG	CAGCAACGTC	200
GAAAATTTGC	AGCTGCCTTT	TTGGCATTTA	TTTCATCTT	GGCAGCTGTG~	250
GACAČCGCTG	AAGCAGGAAA	GAAAGAGAAA	CCAGAAAAGA	AGGTGAAGAA	300
GTCTGACTGT	GGAGAATGGC	AGTGGAGTGT	GTGTGTACCA	ACCAGTGGGG	350
ACTGTGGGCT	GGGCACCCGC	GAGGGCACCC	GTACCGGAGC	TGAGTGTAAA	400
CAAACCATGA	AGACCCAGAG	ATGTAAGATC	CCCTGCAACT	GGAAAAAGCA	
ÀTTTGGAGCG	GAGTGCAAAT	ACCAGTTCCA	GGCCTGGGGA	GAATGTGATC	450
TGAACACGGC	TCTGAAGACC	CGAACTGGGA	GCCTGAAGCG		500
AACGCCGACT		AGTCACCATC	•	AGCCCTCCAC	550
GACCAAGTCC			TCCAAGCCCT	GTGGCAAGCT	600
		CHOMICIAN	GAAGAAGAAA	AAGGAAGGCA	650

PATENT NO. 6,448,381

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PATENT NO: 6,448,381

DATED: September 10, 2002

INVENTOR(S): DEUEL, Thomas, F. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

AGAAACAGGA	GAAGATGCTG	GACTAAAAGC	CACCACCTTC	CGTGGACCAT	700
GAAAAGGACA	TCAGCAAACA	CGATCAGTTA	ACTATTGCAT	TTATATCTAC	750
CGTAGGCTTT	TTATTCAAAA	ATTATCTATA	GCTTAAGTAC	ACAATAGGCA	800
GAAACAAAAT	GAAAAGAAAA	ATTTTGTAGT	AGCATTTTT	TTAAATGTAT	850
CAATATACCA	TAGTACCACT	AGGGACTTAT	AATAGAGGAC	TGTAATCCTA	900
TTTAGAATGT	TGACTTATAG	TACATGTTAA	GTGATAGAAA	ACTGAGGTAA	950
GTTTTTTGAA	GTTATGTGAT	ATTITACATT	ACATTTTTT	TTACATTTTT	1000
TTCTTTTGGC	AGCAATTTAA	ATGTTATGAC	TATGTAAACT	ACTTCTCTTG	1050
TTAGGTAATT	TTTTCACCT	AGACTTTATT	TCCCAATTGA	GAAAAATATC	1100
TACTAAACAA	AGCAGCAATA	AAATATGATC	ATCCTATCTG	AGGAAAATAT	1150
стсттттст	GCCAGTGGAT	TTTTAAAAAA	TTGTAGTCAA	CAAAAT	1196

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